What is claimed is:

- 1. An oxygenated hemoglobin in powdered form.
- 2. The oxygenated hemoglobin of claim 1, wherein the hemoglobin is resistant to oxidation.
- 3. The oxygenated hemoglobin of claim 1, wherein the hemoglobin is stable at room temperature.
- 4. The oxygenated hemoglobin of claim 1, wherein the hemoglobin is pegylated.
- 5. A composition of powdered hemoglobin comprising the oxygenated hemoglobin of claim 1 and no more than 20% of the met form of hemoglobin.
 - 6. A method of preparing a powdered form of a protein, which comprises:
 - (a) mixing a solution of the protein with inulin, and
 - (b) drying the mixture.
 - 7. The method of claim 6, wherein the inulin is derived from Chicory Root.
- 8. The method of claim 6, which further comprises mixing a solution of the protein with inulin and with a reducing sugar, and then drying the mixture.
 - 9. The method of claim 8, wherein the reducing sugar is glucose.
 - 10. The method of claim 8, wherein the reducing sugar is tagatose.
- 11. The method of claim 6 or 8, wherein the drying step comprises lyophilization.

12. The method of claim 6 or 8, wherein the drying step comprises air drying.

- 13. The method of claim 12, wherein the mixture is cooled as it is being air dried.
 - 14. The method of claim 6 or 8, wherein the protein is hemoglobin.
 - 15. The method of claim 14, wherein the hemoglobin is pegylated.
 - 16. The method of claim 14, wherein the hemoglobin is oxygenated.
- 17. The method of claim 14, wherein the powdered hemoglobin contains no more than 20% of the met form of hemoglobin.
 - 18. A powdered hemoglobin prepared by the method of claim 14.
- 19. The powdered hemoglobin of claim 18, wherein the powdered hemoglobin contains no more than 20% of the met form of hemoglobin.
- 20. A method of preparing a blood substitute which comprises reconstituting the powdered hemoglobin of claim 1 or 18.
- 21. The method of claim 20 which comprises dissolving the powdered hemoglobin in an aqueous buffer solution.
 - 22. The method of claim 21, which comprises cooling the buffer.
 - 23. The method of claim 21, which comprises aerating the buffer.
 - 24. A blood substitute prepared by the method of claim 20.
- 25. The blood substitute of claim 24, wherein the hemoglobin comprises no more than 20% of the met form of hemoglobin.

26. A method of treating a subject which comprises administering the blood substitute of claim 24 to the subject.

- 27. A method of treating a subject which comprises reconstituting the powdered hemoglobin of claim 1 or 18, and administering the reconstituted hemoglobin to the subject.
- 28. The method of claim 26 or 27, wherein the subject has a blood loss due to a surgical procedure or to a wound.
- 29. The composition of claim 5, wherein the powdered hemoglobin contains no more than 10% of the met form of hemoglobin.
- 30. The composition of claim 29, wherein the powdered hemoglobin contains no more than 5% of the met form of hemoglobin.
- 31. The method of claim 17, wherein the powdered hemoglobin contains no more than 10% of the met form of hemoglobin.
- 32. The method of claim 31, wherein the powdered hemoglobin contains no more than 5% of the met form of hemoglobin.
- 33. The powdered hemoglobin of claim 18, wherein the powdered hemoglobin contains no more than 10% of the met form of hemoglobin.
- 34. The powdered hemoglobin of claim 33, wherein the powdered hemoglobin contains no more than 5% of the met form of hemoglobin.

35. The blood substitute of claim 25, wherein the powdered hemoglobin contains no more than 10% of the met form of hemoglobin.

- 36. The blood substitute of claim 35, wherein the powdered hemoglobin contains no more than 5% of the met form of hemoglobin.
- 37. The pegylated hemoglobin of claim 4, which comprises one or more polyethylene glycol (PEG) molecules with a molecular weight of 200-40,000 daltons.
- 38. The pegylated hemoglobin of claim 4, wherein the hemoglobin is pegylated with 2-8 PEGs.
- 39. The pegylated hemoglobin of claim 38, wherein the hemoglobin is pegylated with 2-4 PEGs.
- 40. The pegylated hemoglobin of claim 38, wherein the PEGs comprise a PEG with a molecular weight of 5,000 daltons.
- 41. The method of claim 15, wherein the pegylated hemoglobin comprises one or more polyethylene glycol (PEG) molecules with a molecular weight of 200-40,000 daltons.
- 42. The method of claim 15, wherein the hemoglobin is pegylated with 2-8 PEGs.
- 43. The method of claim 42, wherein the hemoglobin is pegylated with 2-4 PEGs.
- 44. The method of claim 42, wherein the PEGs comprise a PEG with a molecular weight of 5,000 daltons.